

WR-10 Coaxial Highpass Filter, 61 to 110 GHz Passband, 40 dB Rejection

Description:

Model SCF-61358340-101F1F-H1 is a coaxial highpass filter with a passband frequency from 61 to 110 GHz. The filter rejects the frequencies from DC to 58 GHz and provides a nominal insertion loss of 1.5 dB in its passband with low ripple. Typical rejection for this model is 40 dB. The RF ports offer female 1 mm connectors. However, the models with other connector type, such as male connector, are also available under different model numbers.



Features:

- Low Cost
- Low Insertion Loss
- High Rejection
- DC Short Circuit

Applications:

- Communication Systems
- Radar Systems
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	61 GHz		110 GHz
Passband Insertion Loss		1.5 dB	
Rejection Frequency	DC		58 GHz
Rejection		40 dB	
Passband Return Loss		14 dB	
Impedance		50 Ω	
Power Handling			10 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

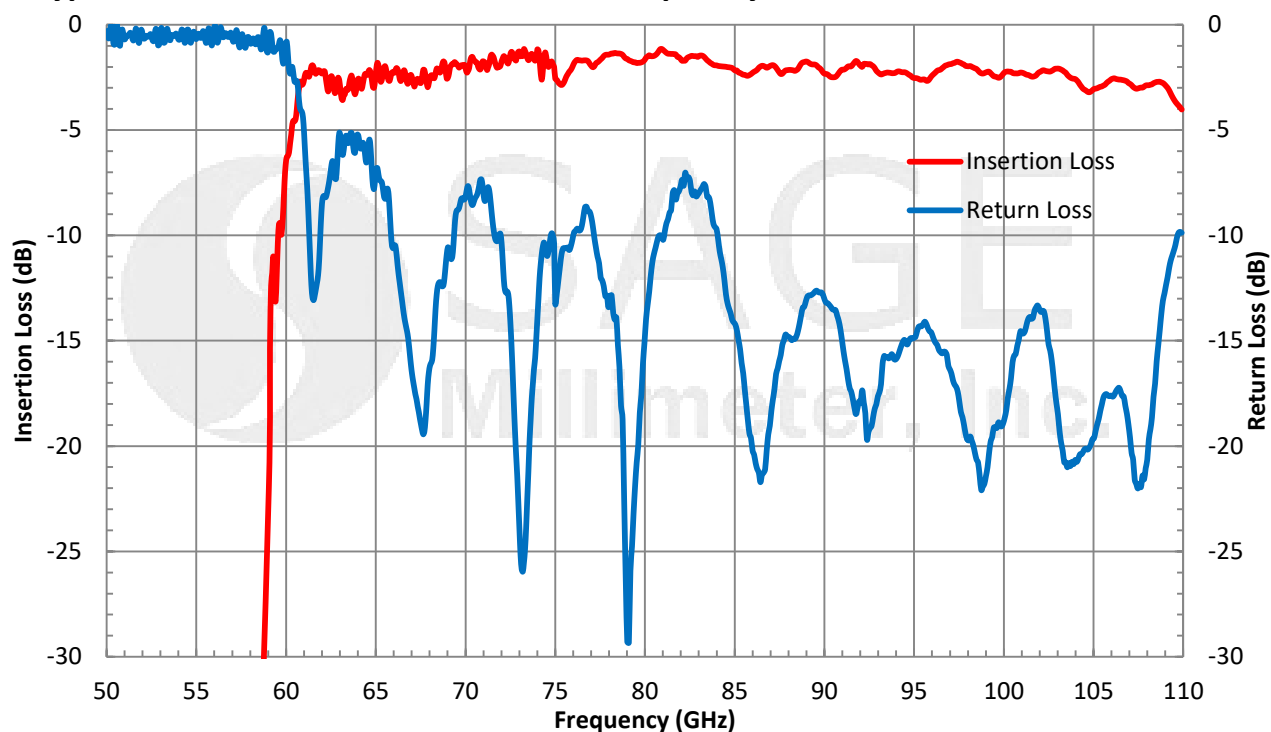
Mechanical Specifications:

Item	Specifications
RF Ports	1 mm (F)
Material	Aluminum
Finish	Gold Plated
Weight	0.6 Oz
Size	1.29" (L) x 0.75" (ϕ)
Outline	CF-HW-B

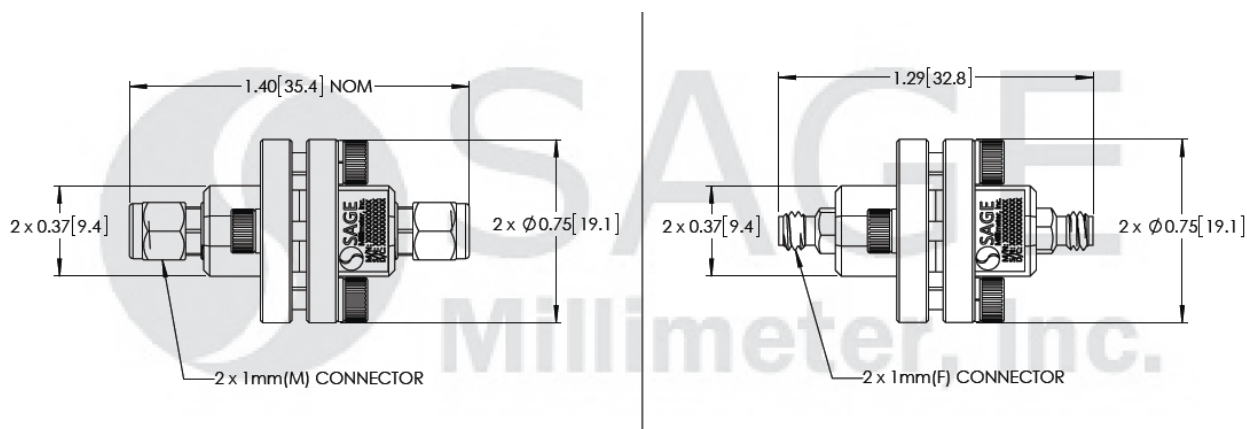


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Typical Insertion and Return Loss vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])

**Note:**

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under 25°C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Proper torque, 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm), should be used. **SAGE Millimeter torque wrench, model SCH-06004-S1, is highly recommended.**



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com